Cuprostibite

Crystal Data: Tetragonal. Point Group: 4/m 2/m 2/m. As fine-grained aggregates, to 1.5 mm in diameter. Twinning: Platy [sic].


R₁–R₂: (400) 51.1–58.6, (420) 52.5–58.5, (440) 52.2–56.9, (460) 50.0–54.9, (480) 47.4–52.6, (500) 45.5–50.3, (520) 42.2–47.6, (540) 37.8–45.0, (560) 35.4–42.5, (580) 35.7–41.7, (600) 39.6–43.0, (620) 45.4–45.9, (640) 50.7–49.3, (660) 55.9–52.0, (680) 59.7–54.3, (700) 62.6–55.7

Cell Data: Space Group: P4/nmm. a = 3.990 c = 6.09 Z = 2

2.07 (100), 2.56 (50), 2.82 (40), 1.993 (40), 1.167 (40), 1.424 (30), 3.33 (20)

Chemistry:

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Total 100.0 99.3 100.4 100.00

(1) Mt. Nákaláq, Greenland; by electron microprobe, average of three analyses; corresponds to Cu₂(Sb₀.₈₂Tl₀.₀₈)₀.₉₄.
(2) Långban, Sweden; by electron microprobe, average of three analyses; corresponds to Cu₂Sb₀.₉₁.
(3) Kangerdluarssuk Plateau, Greenland; by electron microprobe, corresponds to Cu₂Sb₀.₉₇.
(4) Cu₂Sb.

Occurrence: As fine-grained aggregates in a vein of ussingite cutting sodalite syenite (Ilímaussaq intrusion, Greenland); in sulfide veins in metamorphic siliceous dolostone (Långsjön, Sweden).

Association: Löllingite, antimonian silver, chalcopryte, chalcothallite (Ilímaussaq intrusion, Greenland); chalcocite, bismuth (Långban, Sweden); sphalerite, galena, dyscrasite, gudmundite, breithauptite, antimony (Långsjön, Sweden).

Distribution: In southern Greenland, from Mt. Nákaláq [TL], northwest of Taseq Lake, and at other localities in the Ilímaussaq intrusion. From Långsjön, at Långban, and in the Getberg mine, near Långban, Värmland, Sweden. From Franklin, Sussex Co., New Jersey, USA.

Name: For copper, CUPRum, and antimony, STIBium, in the composition.

Type Material: University of Copenhagen, Copenhagen, Denmark.


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